IT Series
Workforce Management Tools

IT11 WFM Terminal

Overview

The Grosvenor Technology IT Series is a family of workforce management products based upon leading edge technology to bring unsurpassed functionality, flexibility, and robustness to data collection solutions. High performance processors and the renowned Linux operating system brings an enriched user experience to applications such as time and attendance clocking.

At the core of the IT Series software is a powerful Python application language with SQLite database. The sophisticated software environment allows the application to run on different IT series products and provides on-going compatibility for kernel and hardware upgrades.

- Display - Monochrome backlit graphical 2.7 inch display, resolution 128 x 64 with variable size fonts. Can display time for example on welcome screen and prompts.
- Keypad - Capacitive touch with buttons (pads) beneath printed layer with clear plastic outer. Up to 4 buttons for normal user operation i.e. Clock IN, Clock OUT, Break IN, and Break OUT. Key operation beep provides a 'live' feel.
- Badge Reader Mifare - Proximity smartcard with sector read/ write capability.
- Badge Reader HID - 125KHz proximity
- Host Connectivity - Ethernet 10/100baseT with HTTPS capability for secure communications, WiFi option through USB.
- USB - Two USB2 ports for memory stick and ancillary devices such as WiFi. Facility to setup parameters such as network, URLs, wireless keys etc. from the memory stick. 2x Host ports (type A). Option for external USB socket.
- Relay Output - Single pole 1A
- Power Supply - Power over Ethernet IEEE802.3af or 12Vdc 8watt maximum (12V plug top Mains adapter option) Internal Battery Backup Module option to run the terminal under mains fail conditions.
- Sound - PWM speaker for beeps
- Processor – Freescale i.MX283 454MHz
- Memory - Flash 128Mbyte RAM 128Mbyte
- RTC - Battery backed real time clock. Use internal clock. System supports NTP for setting and maintaining time.
- Case - Size 100w 170h 48d mm (3.9w 6.7h 1.9d inches) with concealed cable entry.
- Setup – Configuration settings can be loaded locally via USB memory stick or set using a USB keyboard. Full remote configuration and maintenance capability including AssistIT and VNC.

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Grosvenor TECHNOLOGY

IT Series
Workforce Management Tools

IT31 WFM Terminal

- Graphical backlit display 160 x 100 pixel with variable size fonts
- High quality sound with internal microphone and speaker for audio messaging
- Durable membrane keyboard with numeric keypad, navigation and function keys featuring audible feedback
- Plug and play configuration
- Support for a wide range of card reader types
- ARM9 177MHz low power consumption processor. 64MB 32bit SDRAM with 64MB internal on-board flash memory
- USB and serial ports
- Ethernet connectivity with HTTPS capability for secure communications
- Power options include 12Vdc jack, internal mains PSU and IEEE802.3af PoE
- Back-up internal lithium-polymer battery option
- Operating Temperature -10 to +50°C (14 to 122°F), Humidity 5-90% non-condensing
- Optional Environmental enclosure: Operating temps -18°C or 0° F.

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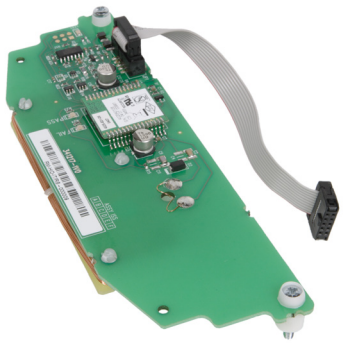
Grosvenor TECHNOLOGY

IT Series
Workforce Management Tools

IT31 Workforce Management Terminal

An advanced terminal from the international leader in clock technology.

- Robust
- Reliable
- Compatible
- Straightforward installation
- Secure
- Scalable



As one of Grosvenor Technology's IT Series products, the IT31 combines industry-leading functionality with a simple-to-integrate, fully managed environment.

The IT Series quality build, employs a durable and eco-friendly, polycarbonate enclosure on the outside and a robust Linux operating system on the inside, ensuring durability in real-world commercial environments.

The core of the IT Series software is a SQLite database and a powerful application language that is isolated from the Linux kernel and hardware. This configuration provides life-long compatibility with application software and the operating system, allowing systems to evolve and benefit from future developments in processors and Linux operating system.

Grosvenor Technology's software provides an integrated development environment and includes facilities for programming and deploying code, as well as sample quick-start applications.

Installation and Configuration

Designed for fast and easy installation IT terminals use a back panel with pre-formed cable entries to assist a wide variety of installation scenarios. The back panel includes a unique click-in system that secures different cabling methods without the need to remove or re-wire preformed cable ends.

Front panel options include a wide variety of easy-fit reader modules for proximity, swipe and biometric technologies. The ease of installation and system maintenance have been fundamental to the way in which the IT31 has been designed.

Precision Diagnostics

Card readers, power supplies and system expansion modules all feature embedded intelligence to provide remote monitoring and diagnostics for parameters such as current consumption, voltage, temperature and firmware version information for every aspect of the terminal. The ability to maintain software after a terminal has been deployed is a fundamental design principle.

From a complete operating system flash image update to a change of application program parameters, downloads can be safely be undertaken by Internet - automatically, manually, or from a USB memory stick.

Integration

Integrating IT terminals with your system is easy thanks to the managed software environment. Built on a robust Linux operating system, we have created a framework for the IT terminals to enable integrators to write or customize applications for the business logic and user interface.

Applications on terminals are written in Python, a scripting language which has the capability to access features such as the internal SQLite database but with an abstraction layer providing independence from the kernel and hardware allowing painless kernel upgrade or migration to other IT products.

An integrated development environment based on Eclipse provides a coding development platform for IT terminals. It includes facilities for programming, deploying code to a terminal, debugging and useful utilities for viewing a terminal status including the SQLite database.

Example applications provide a quick-start for the most common requirements from simple clocking to multi-media messaging. For most situations there is little coding required allowing integrators an immediate and successful integration.

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Grosvenor TECHNOLOGY

IT Series
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IT51 WFM Terminal

- Ten-inch precision resistive touch screen LCD TFT color display, 1025 x 600 resolution with LED backlight
- Two megapixel color camera with movie capability
- High quality sound, internal microphone and stereo speakers for sound messaging
- Wide range of card reader types supported featuring plug-and-play configuration
- High performance, low energy Freescale Cortex A8 800MHz processor
- 512MB DDR2 400MHz SDRAM with 256MB internal on-board flash memory. SD memory card slot
- USB2 ports for memory stick, Wi-Fi, expansion boards, barcode scanners, and more
- Ethernet connectivity with HTTPS capability for secure communications
- Active IR presence detection for energy saving when terminal not being used
- Power options include 12Vdc jack, internal mains PSU and IEEE802.3af PoE
- Internal lithium-polymer battery option to run terminal during power failure
- Operating Temperature -10 to +50°C (14 to 122°F), Humidity 5-90% non-condensing
- Optional Environmental enclosure: Operating temps -18°C or 0° F.
- Optional screen protector

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IT51 Workforce Management Terminal

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- Reliable
- Compatible
- Straightforward installation
- Secure
- Scalable

As one of Grosvenor Technology's IT Series products, the IT51 combines industry-leading functionality with a simple-to-integrate, fully managed environment.

Ten inch, high resolution, touch-screen, full-color, and multi-media provide optimum user experience.

SQLite database and a powerful application language are isolated from the Linux kernel and hardware for compatibility with application software and the operating system, allowing systems to keep-up with evolving technologies.

High quality build ensures durability in commercial and industrial environments and modular, intelligent plug-and-play hardware and a wide range of card readers, biometrics and power supply options.

Installation and Configuration

The IT51 uses a "click-in" back panel with pre-formed cable entries for quick and easy installation.

Front panels accommodate easy-fit reader modules for proximity, swipe and biometric technologies.

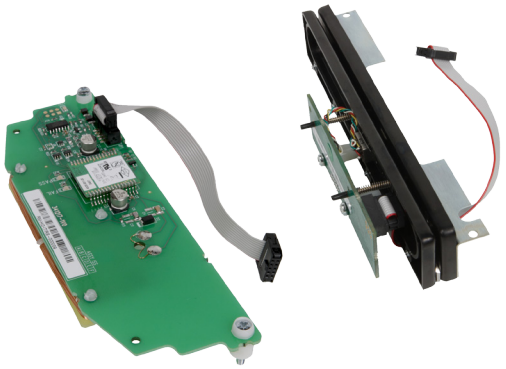
Precision Diagnostics

Card readers, power supplies and system expansion modules all feature embedded intelligence to provide remote monitoring and diagnostics for parameters such as current consumption, voltage, temperature, and firmware version information for every aspect of the terminal. The ability to maintain post-installation software is a fundamental design principle.

From a complete operating system flash image update to a change of application program parameters, downloads can be safely undertaken by internet - automatically, manually, or from a USB memory stick.

Integration

The system integration of all Grosvenor Technology terminals is simple thanks to the robust, managed environment created within a framework which enables integrators to develop, or customize, applications for the business logic and user interface.



Terminal applications are written in the Python scripting language. This can access the internal SQLite database, with an abstraction layer providing independence from the kernel and hardware allowing painless kernel upgrade or migration to other products.

An integrated development environment based on Eclipse provides a coding development platform for Grosvenor Technology terminals, including facilities for programming, deploying code to a terminal, debugging and utilities for viewing a terminal status including the SQLite database.

Example applications provide a quick-start for the most common requirements from simple clocking to multi-media messaging. For most situations there is little coding required allowing integrators an immediate and successful integration..

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